This tutorial will walk you through how to set up the PlutoSDR to work on windows and become programmable with Python. I am a huge fan of Python and prefer it over MATLAB because of my familiarity with Python. If you want to use MATLAB, that is a well respected option. I attempted to set up the PlutoSDR using Ubuntu, but ran into a connectivity issue using the Libiio github.

Step 1. Install this driver for Windows to make the PlutoSDR show up in device manager as PlutoSDR and as an ethernet connection in Network Connections.
https://github.com/analogdevicesinc/plutosdr-m2k-drivers-win/releases/download/v0.7/PlutoSDR-M2k-USB-Drivers.exe

Step 2. Ping the PlutoSDR in the command terminal with ping 192.168.2.10 since that is its default address. You can also check if it is connected using ipconfig.

Step 3. Run the below commands in your preferred Python Editor
python -m pip install --upgrade pip
pip install pyadi-iio numpy scipy matplotlib
For VSCode Terminal run:
py -m pip install –upgrade pip
py -m pip install pyadi-iio numpy scipy matplotlib

Step 4. Go to this github library: https://github.com/analogdevicesinc/libiio/releases and download
https://github.com/analogdevicesinc/libiio/releases/download/v0.26/libiio-0.26.ga0eca0d2-setup.exe

Step 5. It will ask if it can close a large amount of background programs, click yes. Eventually you will get an error, hit continue without closing.

Step 6. After installation, run the python test code below and it should print “connected”

Test Code:

```
import adi
sdr = adi.Pluto("ip:192.168.2.1")
sdr.sample_rate = int(2.5e6)
sdr.rx()
print("Connected successfully!")
```